WEST

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L6: Entry 9 of 10 File: DWPI Mar 9, 1984

DERWENT-ACC-NO: 1984-097589
DERWENT-WEEK: 198416

TITLE: Prodn. of carbon material for fuel cell - from carbonaceous powder mixed with resin contg. vinyl! phenol polymer and phenol! resin initial condensate

PRIORITY-DATA: 1982JP-0137351 (August 9, 1982)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 59042781 A	March 9, 1984	N/A	005	N/A
JP 89057467 B	December 6, 1989	N/A	000	N/A

used in reg.

INT-CL (IPC): C04B 35/00; H01M 8/02

ABSTRACTED-PUB-NO: JP59042781A
BASIC-ABSTRACT:

Method comprises (1) kneading (a) 100 pts. wt. carbonaceous powder of mesh size at most 100 with (b) 12-30 pts. wt. mixed resin contg. vinylphenol polymer and phenol resin initial condensate having epoxy group, (2) moulding mixt. by heat-pressure moulding into plate, (3) preliminarily heating at up to 200 deg.C., and (4) hardening by heating at 220-270 deg.C.

Chemical resistance, heat resistance, gas impermeability, etc. are improved.

In an example, 40 pts. wt. paravinylphenol polymer, and novolak type phenol resin initial condensate having epoxy group were dissolved in acetone. The resin solution (20 pts. wt.) was added to graphite powder (100 pts. wt.), which was kneaded at 90 deg.C. under 0.5 kg/cm2 for 2 hrs. The kneaded mixture was dried, filtered up to 80 mesh and moulded into plate. The plate was sliced into 8.0 mm. thickness, heated at 180 deg.C. for 24 hrs. and hardened at 250 deg.C.

ABSTRACTED-PUB-NO: JP59042781A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0